

Topics: Metals and Non-Metals**Subtopics: Physical Properties of Metals and Non-metals****Chemical Properties of Metals and Non-metals****Questions**

Q1. Name a non-metal which is lustrous and a metal which is non-lustrous.

Q2. Give an example of a metal which :

- (i) is a liquid at room temperature.
- (ii) can be easily cut with a knife.
- (iii) is the best conductor of heat.
- (iv) is a poor conductor of heat.

Q3. Name two metals which are found in nature in the free state.

Q4. Explain the meanings of malleable and ductile.

Q5. Why is sodium kept immersed in kerosene oil ?

Q6. Write equations for the reactions of

- (i) iron with steam.
- (ii) calcium and potassium with water.

Q7. Which gas is produced when dilute hydrochloric acid is added to a reactive metal ? Write the chemical reaction when iron reacts with dilute H_2SO_4 .

Q8. What would you observe when zinc is added to a solution of iron (II) sulphate ? Write the chemical reaction that takes place.

Q9. Explain why calcium metal after reacting with water starts floating on its surface.

Write the chemical equation for the reaction. Name one more metal that starts floating after some time when immersed in water.

Q10. Aluminium oxide is considered as an amphoteric oxide. Give reason